*Fluid Phase Equilibria*, 55 (1990) 367–368
Elsevier Science Publishers B.V., Amsterdam – Printed in The Netherlands



## Contents Volume 55 (1990)

*Volume 55, Nos. 1–2*

Prediction of solvent activities in polymer solutions
M.S. High and R.P. Danner (University Park, PA, U.S.A.) ..... 1–15

Vapour pressure and association of phenols
A. Książczak and J.J. Kosiński (Warsaw, Poland) ..... 17–37

Thermodynamics of association of pure alcohols
T. Hofman (Warsaw, Poland) ..... 39–57

Criteria for the elimination of azeotrope of a solvent mixture by a dissolved solute
T.-C. Tan (Singapore, Singapore) ..... 59–74

A new analytic formula for molecular radial distribution function in fluid and fluid mixtures
J.-D. Li, Y.-G. Li, J.-F. Lu and T. Teng (Beijing, China) ..... 75–85

Thermodynamic properties of small normal alkanes from an interaction-site model
B. Kvamme (Porsgrunn, Norway) and T. Hertzberg (Trondheim, Norway) .. 87–107

The orthobaric region of octamethyltrisiloxane
D.D. Lindley and H.C. Hershey (Columbus, OH, U.S.A.) ..... 109–124

Solubility of acetyl-substituted naphthols in binary solvent mixtures
U. Domańska (Warsaw, Poland) ..... 125–145

Effect of deuterium substitution on the vapour pressure of dichloromethane
G. Jancsó, L. Markó, L.P.N. Rebelo, K. Tóth and Gy. Jákli (Budapest, Hungary) ..... 147–158

Vapor–liquid equilibria for the ternary system $N_2 + CO_2 + CH_4$ at 230 and 250 K
T.A. Al-Sahhaf (Safat, Kuwait) ..... 159–172

Three-phase liquid–liquid–gas equilibrium in the ternary system of *trans*-decalin–n-decane–carbon dioxide
J.M. Ritter, A.M.F. Palavra, C.P. Chai Kao and M.E. Paulaitis (Newark, DE, U.S.A.) ..... 173–191

Light gas solubility in phenanthrene: the hydrogen–phenanthrene and methane–phenanthrene systems
P.V. Malone and R. Kobayashi (Houston, TX, U.S.A.) ..... 193–205

Phase equilibria of water + γ-butyrolactone system
D.H.S. Ramkumar and A.P. Kudchadker (Bombay, India) ..... 207–215

Solubility of triethylene glycol in supercritical $CO_2$
T. Yonemoto, T. Charoensombut-Amon and R. Kobayashi (Houston, TX, U.S.A.) ..... 217–229

Bubble point measurements for the ternary system carbon dioxide, benzene and naphthalene

T.A. Al-Sahhaf, R.S. Al-Ameeri, I.M. Nashef and S.E.M. Hamam (Safat, Kuwait) ..... 231–240

*Short Communication*

Critical parameters and saturation densities of 1,1-dichloro-2,2,2-trifluoroethane
L.A. Weber and J.M.H. Levelt Sengers (Gaithersburg, MD, U.S.A.) ..... 241–249

*Book reviews* ..... 251–257

*Erratum* ..... 259

*Announcement* ..... 261

*Volume 55, No. 3*

Computation of vapour–liquid equilibrium in $N_2 + CO_2 + CH_4$ system by a general cubic equation of state
V. Feroiu and D. Geana (Bucharest, Romania) ..... 263–270

Association of ethanol in inert solvents
T. Hofman (Warsaw, Poland) ..... 271–292

Analysis of thermodynamic properties of 1-alkanol + n-alkane mixtures using the Nitta–Chao group contribution model
J. Fernández, J.L. Legido, M.I. Paz Andrade, L. Pías (Santiago de Compostela, Spain) and J. Ortega (Las Palmas, Spain) ..... 293–308

Phase compositions for mixtures of 2-methyl-2-propanol, n-tetradecane, water, and sodium chloride at 25 °C in the three-phase region and adjacent two-phase regions
M.K. Silva, M.J. Michnick and G.P. Willhite (Lawrence, KS, U.S.A.) ..... 309–317

A modified elution method for measuring solubility of slightly soluble gases in liquids
D. Zavida, N. Munk, E.S. Marcussen and H. Livbjerg (Lyngby, Denmark) .. 319–335

Vapour–liquid equilibria. V. The ternary system carbon tetrachloride–methanol–chloroform at 303.15 K
M. Góral, P. Oracz and S. Warycha (Warsaw, Poland) ..... 337–354

Excess molar volumes of binary mixtures of an isomer of pentanol + an n-alkane at 288.15, 298.15, 308.15 and 318.15 K
A.H. Al-Dujaili and A.M. Awwad (Baghdad, Iraq) ..... 355–364

*Author Index* ..... 365

*Contents of Volume 55 (1990)* ..... 367–368